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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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20985	7590	09/24/2004	EXAMINER	
FISH & RICHARDSON, PC 12390 EL CAMINO REAL SAN DIEGO, CA 92130-2081			BRUCKART, BENJAMIN R	
			ART UNIT	PAPER NUMBER
			2155	
DATE MAILED: 09/24/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

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## Office Action Summary

Application No.

09/753,086

Applicant(s)

HATALKAR, ATUL N.

Examiner

Benjamin R Bruckart

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 03 August 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-26 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

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***Detailed Action***

Claims 1-26 are pending in this Office Action.

The 35 U.S.C. 112, second paragraph rejection remains on claims 6 and 12.

Claims 1-22 remain rejected under 35 U.S.C. 103(a) as being anticipated by U.S. Patent No. 6,262,984 by Rochberger in view of U.S. Patent No. 6,192,401 by Modiri et al.

**Response to Arguments**

Applicant's arguments filed in the amendment filed August 3<sup>rd</sup>, 2004, have been fully considered but they are not persuasive. The reasons are set forth below.

**Applicant's invention as claimed:**

Claims 6 and 12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 6 and 12 recite the limitations "the second group identifier." There is insufficient antecedent basis for these limitations in the claim.

**Claims 1-22, 26 are rejected under 35 U.S.C. 103(a) as being anticipated by U.S. Patent No. 6,262,984 by Rochberger in view of U.S. Patent No. 6,192,401 by Modiri et al.**

**Claims 23-25 are rejected under 35 U.S.C. 103(a) as being anticipated by U.S. Patent No. 6,262,984 by Rochberger in view of U.S. Patent No. 6,192,401 by Modiri et al. in further view of U.S. Patent No. 6,434,159 by Woodward et al.**

Regarding claim 1,

The Rochberger reference teaches:

storing data indicative of membership in a first group at a first client (Rochberger: col. 9, lines 8-10, Table 1);

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updating the data indicative of membership in the first group at the first client in response to receiving the group membership file (Rochberger: col. 3, lines 15-23); and at a system host, transmitting a group membership file to a plurality of clients including said first client, the group membership file including information indicative of client memberships in two or more groups (Rochberger: col. 2, lines 51-61; col. 6, lines 16- col. 7, line 17).

The Rochberger reference does not explicitly disclose dynamically grouping clients.

The Modiri reference teaches a method for dynamically grouping clients in a system (Modiri: col. 1, lines 17-20), comprising:

transmitting a group membership file including information indicative of client memberships in two or more groups at a system host (Modiri: col. 7, lines 37-49).

The Modiri reference further teaches an optimized way to determine membership in a cluster after a reconfiguration of cluster membership (Modiri: col. 2, lines 11-16).

Therefore it would have been obvious at the time of the invention to one of ordinary skill in the art to create the system of storing, updating and transmitting membership data as taught by Rochberger while dynamically grouping clients as taught by Modiri in order to optimize the way to determine membership in a cluster after a reconfiguration of cluster membership (Modiri: col. 2, lines 11-16).

Claims 2-6 are rejected under the same rationale given above. In the rejections set forth, the examiner will address the additional limitations and point to the relevant teachings of Rochberger and Modiri et al.

Regarding claim 2, the method of claim 1, wherein the data indicative of membership in the first group comprises a first group identifier (Rochberger: col. 9, Peer Group ID).

Regarding claim 3, the method of claim 2, further comprising:

creating the first group including two or more member clients, a member client having a client identifier (Modiri: col. 7, lines 60-63);

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assigning the first group identifier to the first group (Rochberger: col. 6, lines 25);  
and

associating the client identifiers of the member clients with the first group  
identifier in the group membership file (Rochberger: col. 9 Table; Node ID, Peer Group  
ID, Node Address).

Regarding claim 4, the method of claim 3, wherein the each member client satisfies a  
criterion (Modiri: col. 8, lines 13-15, lines 62- col. 9, line 3).

Regarding claim 5, the method of claim 4, wherein the criterion comprises client profile  
information (Modiri: col. 7, lines 22-36; Rochberger: col. 6, lines 6-10).

Regarding claim 6, the method of claim 1, further comprising:

transmitting a message including a payload and a second group identifier  
(Rochberger: 1, lines 44-57; headers are identifiers and the payload is the data as defined  
by ATM protocol);

receiving the message at the client (Rochberger: col. 2, lines 51-61); and

extracting the payload from the message in response to the first group identifier  
matching the second group identifier (Rochberger: col. 3, lines 3-15; col. 6, lines 66- col.  
7, lines 16).

Regarding claim 26, the method of claim 1, wherein the group membership file includes a  
plurality of group membership identifiers associated (Rochberger: col. 6, lines 24-37;  
peer group ID; col. 2, lines 51-67) with a plurality of client identifiers corresponding to a  
plurality of clients (Modiri: col. 7, lines 60-63).

Regarding claim 7,

The Rochberger reference teaches

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storing data indicative of membership in a first group at a client (Rochberger: col. 9, lines 8-10, Table 1);

transmitting a group membership file including information indicative of client memberships in two or more groups at a system host (Rochberger: col. 3, lines 15-23); and

update the data indicative of membership in the first group at the client in response to receiving the group membership file (Rochberger: col. 3, lines 15-23).

The Rochberger reference does not explicitly disclose dynamically grouping clients.

The Modiri reference teaches an article comprising:

a machine-readable medium which stores machine executable instructions (Modiri: col. 7, lines 20-27), the instructions causing a machine to:

transmitting a group membership file including information indicative of client memberships in two or more groups at a system host (Modiri: col. 7, lines 37-49; Rochberger: col. 3, lines 15-23).

The Modiri reference further teaches an optimized way to determine membership in a cluster after a reconfiguration of cluster membership (Modiri: col. 2, lines 11-16).

Therefore it would have been obvious at the time of the invention to one of ordinary skill in the art to create the system of storing, updating and transmitting membership data as taught by Rochberger while dynamically grouping clients as taught by Modiri in order to optimize the way to determine membership in a cluster after a reconfiguration of cluster membership (Modiri: col. 2, lines 11-16).

Claims 8-12 are rejected under the same rationale given above. In the rejections set forth, the examiner will address the additional limitations and point to the relevant teachings of Rochberger and Modiri et al.

Regarding claim 8, the article of claim 7, wherein the data indicative of membership in the first group comprises a first group identifier (Rochberger: col. 9, Peer Group ID).

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Regarding claim 9, the article of claim 8, further comprising instructions causing the machine to:

create the first group including two or more member clients, a member client having a client identifier (Modiri: col. 7, lines 60-63);

assign the first group identifier to the first group (Rochberger: col. 6, lines 25);  
and

associate the client identifiers of the member clients with the first group identifier in the group membership file (Rochberger: col. 9 Table; Node ID, Peer Group ID, Node Address).

Regarding claim 10, the article of claim 9, wherein the criterion comprises client profile information (Modiri: col. 8, lines 13-15, lines 62- col. 9, line 3).

Regarding claim 11, the article of claim 10, wherein the criterion comprises client profile information (Modiri: col. 7, lines 22-36; Rochberger: col. 6, lines 6-10).

Regarding claim 12, the article of claim 7, further comprising instructions causing the machine to:

transmit a message including a payload and a second group identifier (Rochberger: 1, lines 44-57; headers are identifiers and the payload is the data as defined by ATM protocol);

receive the message at the client (Rochberger: col. 2, lines 51-61); and

extract the payload from the message in response to the first group identifier matching the second group identifier (Rochberger: col. 3, lines 5-15).

Regarding claim 13,

The Rochberger reference teaches an apparatus comprising:

a memory operative to store an apparatus identifier (Rochberger: col. 9, lines 8-10, Table 1);



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said file including a group identifier and two or more associated member identifiers (Rochberger: col. 3, lines 15-23); and

a receiver controller operative to store the group identifier in the memory in response to said apparatus identifier matching one of said member identifiers (Rochberger: col. 3, lines 5-30).

The Rochberger reference does not explicitly disclose a receiver to the physical connection (col. 1, line 32).

The Modiri reference teaches a receiver operative to receive a group membership file in a first transmission (Modiri: col. 11, lines 62-65; col. 7, lines 45-49)

The Modiri reference further teaches an optimized way to determine membership in a cluster after a reconfiguration of cluster membership (Modiri: col. 2, lines 11-16).

Therefore it would have been obvious at the time of the invention to one of ordinary skill in the art to create the apparatus of storing, updating and transmitting membership data as taught by Rochberger while employing a network interface as taught by Modiri in order to optimize the way to determine membership in a cluster after a reconfiguration of cluster membership (Modiri: col. 2, lines 11-16).

Claims 14-17 are rejected under the same rationale given above. In the rejections set fourth, the examiner will address the additional limitations and point to the relevant teachings of Rochberger and Modiri et al.

Regarding claim 14, the apparatus of claim 13, wherein the group membership file comprises two or more group identifiers, a group identifier associated with two or more member identifiers (Rochberger: col. 9, lines 8-10, Table 1).

Regarding claim 15, the apparatus of claim 13, wherein the receiver controller is operative to identify each group identifier associated with a member identifier that matches the apparatus identifier, and to update the memory to include such identified group identifiers (Rochberger: col. 3, lines 15-30; col. 6, lines 25-30).

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Regarding claim 16, the apparatus of claim 15, wherein said updating comprises removing a stored group identifier in response to said group identifier not being associated with the apparatus identifier in the group membership file (Rochberger: col. 3, lines 15-30, lines 48-53).

Regarding claim 17, the apparatus of claim 13, wherein the receiver is operative to receive a message including an identifier and a payload portion (Rochberger: 1, lines 44-57; headers are identifiers and the payload is the data as defined by ATM protocol), and wherein the receiver controller is operative to compare said identifier to the apparatus identifier and the stored group identifier (Rochberger: col. 3, lines 3-15) and discard said message in response to said identifier not matching one of said apparatus identifier and said group identifier (the message is ignored when the identifier is not matched).

Regarding claim 18, a system host comprising:

The Rochberger reference teaches a memory for storing a group membership file including two or more group identifiers (Rochberger: col. 9, lines 8-10; database), a group identifier associated with two or more member identifiers (Rochberger: col. 9, lines 8-10; Table 3; Peer Group ID, Node ID, Node Address);

associating a group identifier with the two or more first group membership identifiers in the group membership file (Rochberger: col. 9); and

a transmitter operative to transmit the group member file to a plurality of client devices, two or more of said client devices having client identifiers that match the first group member identifiers (Rochberger: col. 3, lines 4-30).

The Rochberger reference does not explicitly disclose creating a first group.

The Modiri reference teaches a creating a first group including two or more first group member identifiers that share a first criterion (Modiri: col. 7, lines 60-63; col. 8, lines 13-15, lines 62- col. 9, line 3).

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The Modiri reference further teaches an optimized way to determine membership in a cluster after a reconfiguration of cluster membership (Modiri: col. 2, lines 11-16).

Therefore it would have been obvious at the time of the invention to one of ordinary skill in the art to create the apparatus of storing, updating and transmitting membership data as taught by Rochberger while creating groups that share criterion as taught by Modiri in order to optimize the way to determine membership in a cluster after a reconfiguration of cluster membership (Modiri: col. 2, lines 11-16).

Claims 19-20 are rejected under the same rationale given above. In the rejections set forth, the examiner will address the additional limitations and point to the relevant teachings of Rochberger and Modiri et al.

Regarding claim 19, the system host of claim 18, further comprising: a transmission controller operative to transmit the group membership file to said plurality of client devices at scheduled intervals (Modiri: col. 7, lines 37-49; Rochberger: col. 2, lines 50-61).

Regarding claim 20, the system host of claim 19, wherein the group generator is operative to update the group membership file and transmit the updated group membership file to the plurality of client devices (Rochberger: col. 3, lines 15-30).

Regarding claim 21,

The Rochberger reference teaches a system comprising:

a system host (Rochberger: col. 3, lines 15; node) comprising:

a memory for storing a group membership file including two or more group identifiers (Rochberger: col. 9, lines 8-10; database), each group identifier associated with two or more member identifiers (Rochberger: col. 9, Table 3);

associating a first group identifier with the two or more first group membership identifiers in the group membership file (Rochberger: col. 9, Tables 1-4); and

a transmitter operative to transmit the group member file (Rochberger: col. 2, lines 51-61; Modiri: col. 7, lines 45-49); and a plurality of clients, a client comprising:

a memory operative to store an apparatus identifier (Rochberger: col. 9, lines 8-10; col. 3, lines 15-30); a receiver operative to receive the group membership file in a first transmission; and

a receiver controller operative to store a group identifier in the memory in response to said apparatus identifier matching one of said member identifiers (Rochberger: col. 3, lines 5-15).

The Rochberger reference does not explicitly disclose dynamically creating the groups.

The Modiri reference teaches creating a first group including two or more first group member identifiers that share a first criterion (Modiri: col. 7, lines 22-36, lines 60-63).

The Modiri reference further teaches an optimized way to determine membership in a cluster after a reconfiguration of cluster membership (Modiri: col. 2, lines 11-16).

Therefore it would have been obvious at the time of the invention to one of ordinary skill in the art to create the system for storing group membership information with identifiers as taught by Rochberger while creating groups that share criterion as taught by Modiri in order to optimize the way to determine membership in a cluster after a reconfiguration of cluster membership (Modiri: col. 2, lines 11-16).

Claim 22 is rejected under the same rationale given above. In the rejections set forth, the examiner will address the additional limitations and point to the relevant teachings of Rochberger and Modiri et al.

Regarding claim 22, the system of claim 21, wherein said communication link comprises a transmission line (Rochberger: col. 2, lines 50, 51; Modiri: col. 2, lines 22-24).

Regarding claim 23,

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The Rochberger and Modiri references teach the system of claim 21, wherein said data is communicated along a communication link.

The Rochberger and Modiri references do not explicitly disclose wireless communication.

The Woodward reference teaches a wireless communication network with wireless connection links (Woodward: col. 20, lines 1-19).

The Woodward reference further teaches the wireless network overcomes the offensive impediments of wired interconnected networks for portable devices (Woodward: col. 2, lines 33-43).

Therefore it would have been obvious at the time of the invention to one of ordinary skill in the art to create the system for storing group membership information with identifiers while creating groups that share criterion as taught by Rochberger and Modiri while using a wireless communication link as taught by Woodward in order increase portable device connectivity (Woodward: col. 2, lines 33-43).

Claims 23-25 are rejected under the same rationale given above. In the rejections set fourth, the examiner will address the additional limitations and point to the relevant teachings of Rochberger, Modiri et al, and Woodward et al.

Regarding claim 24, the system of claim 21, wherein said client devices comprise set-top appliances adapted for connection to a television (Woodward: col. 5, lines 24-45; Woodward: col. 20, lines 1-19).

Regarding claim 25, the system of claim 21, wherein said client devices comprise hand-held wireless communication devices (Woodward: col. 5, lines 24-45; Woodward: col. 20, lines 1-19).

**REMARKS****The Applicant Argues:**

With regard to the independent claims, applicant argues the presence of “at a system host, transmitting a group membership file to a plurality of clients including said first client, the group membership file including information indicative of client memberships in two or more groups.”

Applicant argues the Figure and alleged associated text shows each of the nodes only belongs to one peer group but does not give a citation. Applicant argues the hello messages sent by nodes only include their own peer group membership. Applicant further argues the presence and actions of a system host.

**In response**, the examiner respectfully submits:

The Rochberger and Modiri references do teach the cited portion above. The assessment is incorrect. The Rochberger reference teaches more than one peer group in Figure 1, associated text is col. 5, lines 65- col. 53. Specifically, Rochberger col. 6, lines 16-24 where it indicates peer groups 12, 30, and 50. Further it shows more detail that there is two or more groups in labeling specific logical group nodes and peer group leaders for each of the illustrated 3 peer groups.

In further support the hello packets are sent to neighbors to exchange hellos and “synchronize their topology databases if they are in the same peer group” (col. 3, lines 4-8).

Also the hello packets are sent to neighbors to exchange hellos and “synchronize their topology databases if they are in the same peer group” (col. 3, lines 4-8). Rochberger further supports different peer groups information in the hello message outline the development of border nodes (Rochberger: col. 6, lines 66- col. 7, line 17) in which there is no database exchange with.

The Rochberger reference teaches a system host transmitting a group membership data indicative of two or more groups. The system host is described as the logical group node instantiated by the peer group leader or the PGL (Rochberger: col. 6, lines 16-53). The Rochberger reference shows the logical group leader and PGL flood the summarized data to its peers, the summarized data needed to route data in and across the peer group

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(col. 6, lines 40-53). The group membership file is described (Rochberger: col. 3, lines 15-23) and PTSE that flows down to a PGL is flooded across that peer group (col. 6, lines 60-61).

**The Applicant Argues:**

The Modiri reference cannot make up for the alleged lack of more than one group membership information exchanged.

**In response**, the examiner respectfully submits:

The Rochberger treats the claimed limitation as indicated with details and support above.

***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin R Bruckart whose telephone number is (703) 305-0324. The examiner can normally be reached on 8:00-5:30PM with every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on (703) 308-6662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Benjamin R Bruckart  
Examiner  
Art Unit 2155

*brb*

brb  
September 22, 2004

*Hosain Alam*

**HOSAIN ALAM  
SUPERVISORY PATENT EXAMINER**